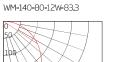
Flexglo[™] F2222B Monochrome - White Light (Silicone)

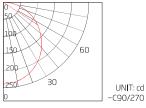


C-SFR-F2222B-HB





C-SFR-F2222B-HB-24CC-40K-



AVERAGE BEAM ANGLE (50%): 113.6°

Min, Bending Diameter 400mm/15.75in













>100 kg.f Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice.

- 1. The illuminated light length shall be an integral multiple of min. cutting length.
- 2. The waterproof reliability of the lighting fixture depends on the IP rating of connector (see details on page ***), and please make sure connector is properly assembled before installation. The highest IP rating we can achieve is IP68.

Item Code

С	SFR	F2222B	НВ	24CC	30K	WM	140	80	12W	50
Company	Material	Product Series	Bending Direction	Voltage & Circuit Type	ССТ	Base & Lighting Surface	LEDs Qty/m	CRI	Power/m	Min. Cutting Length (mm)
Clear	SFR= Silicone Flex Ribbon	F2222B= Monochrome	HB= Horizontal Bending	DC24V & Constant Current	22K=2200K 27K=2700K 30K=3000K 35K=3500K 40K=4000K 57K=5700K	WM= White & Milky	140	80	12W 16.5W	50



Feature

Flexglo™ F2222B Monochrome - White Light (Silicone) is a new item for architectural market with rated power options of 12W/m and 16.5W/m, delivering luminous flux up to 1100lm/m. Thanks to the excellent weatherproof and UV resistant performance of silicone material, it features a wide ambient working temperature range of -40-55 °C excluding -40-45 °C for 16.5W/m, especially suitable for harsh environment application.

Combined with the adoption of the DryWire™ technology, the IP68 Injection-moulded Connector is engineered for outdoor use, owing to its elegant appearance and strong adhesiveness acquired by the liquid silicone injection workmanship.

This product features a ultra long lifespan in outdoor application by leveraging other ClearTech™ such as the PinBoost™ technology enhancing physical reliability of light engine, the TwinFlex™ technology improving the conductivity and optimizing heat dissipation performance, the C-Mask™ technology making the light body self-cleaning and anti-UV and enabling consistent illumination.

Electrical Parameter

Category	C-SFR-F22	222B-HB
Voltage (V)	24	24
Current (mA/m)	500.0	687.5
Power (W/m)	12	16.5
Circuit Type	СС	СС
LED Type	2835	2835
LEDs Qty/m	140	140
LEDs Qty/unit	7	7
Unit/m	20	20
Min. Cutting Length (mm)	50	50
Min. Cutting Length (in)	1.97	1.97

Optical Parameter

			LED					
Item Code	ССТ	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F2222B-HB-24CC-22K-WM-140-80-12W-50	2200K	2238±82K	<5SDCM	80	700	213	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-27K-WM-140-80-12W-50	2700K	2725±115K	<5SDCM	80	720	220	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-30K-WM-140-80-12W-50	_ 3000К	3045±140K	<5SDCM	80	720	220	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-35K-WM-140-80-12W-50	3500K	3465±170K	<5SDCM	80	750	229	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-40K-WM-140-80-12W-50	<u>4000</u> 4000K	3985±225K	<5SDCM	80	750	229	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-57K-WM-140-80-12W-50	<u> </u>	5665±355K	<5SDCM	80	750	229	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-22K-WM-140-80-16.5W-50	2200K	2238±82K	<5SDCM	80	950	290	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-27K-WM-140-80-16.5W-50	2700K	2725±115K	<5SDCM	80	1000	305	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-30K-WM-140-80-16.5W-50	3000K	3045±140K	<5SDCM	80	1000	305	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-35K-WM-140-80-16.5W-50	3500K	3465±170K	<5SDCM	80	1100	335	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-40K-WM-140-80-16.5W-50	0 4000K	3985±225K	<5SDCM	80	1100	335	<2.3SDCM	82~87
C-SFR-F2222B-HB-24CC-57K-WM-140-80-16.5W-50	5700K	5665±355K	<5SDCM	80	1000	305	<2.3SDCM	82~87

Note

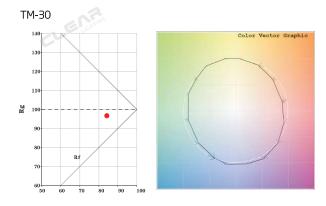
- $1.\,\mathsf{CCT}\,\mathsf{Tolerance}\,\mathsf{refers}\,\mathsf{to}\,\mathsf{target}\,\mathsf{CCT}\,\mathsf{and}\,\mathsf{tolerance}\,(\mathsf{ANSI}\,\mathsf{C78.377}).$
- 2. Color Tolerance refers to CLEAR standard for the different batch of finished product and LED, and it's < 3SDCM for same batches of finished product.

Flexglo[™] F2222B Monochrome - White Light (Silicone)

Max. Running Length Input: DC24V

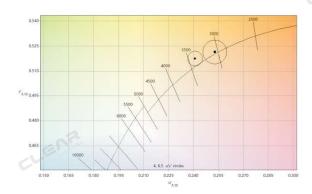
			LE JOHN DE			
Type	Silicone Injection	Silicone Injection-moulded Connector				
IP Rating		P68				
Item Code	Single-end Feed	Double-end Feed				
C-SFR-F2222B-12W	15m/49.2ft	30m/98.4ft				
C-SFR-F2222B-16.5W	10m/32.8ft	20m/65.6ft				

- 1. Above conclusion is based on voltage drop testing result of the light with 0.3m (0.98ft) cable only.
- 2. The maximum running length is based on the light in static full loading status.
- Above running length is only the light length excluding lengths of connectors. Please refer to page *** for exact dimension of connector.
 The delivery length might be subject to the maximum packing length. Please refer to page *** for details.



IES TM-30-15 is a new system of several related measures and graphics that can be used together to effectively evaluate and communicate a light source's color rendering $properties. \ The \ development \ of \ the \ method \ involved \ synthesizing \ multiple \ related \ research$ efforts and combining ideas into a single, cohesive system of objective information that can be used to aid decision-making processes, such as finding the preferred light source for a given application or evaluating the tradeoffs between efficacy and color rendering.

Measure		Description
Fidelity Index	Rf	Analogous to CIE Ra (CRI). Characterizes the average color shift of the 99 CES to characterize the overall level of similarity between the test source and reference illuminant. Values range from 0 to 100.
Gamut Index	Rg	Compares the area enclosed by the average chromaticity coordinates in each of 16 hue bins to characterize the average saturation level of the test source compared to the reference illuminant. A neutral score is 100, with values greater than 100 indicating an increase in saturation and values less than 100 indicating a decrease in saturation. The range in values grows as fidelity decreases.



Color Matching

 ${\it Color temperature value stated on all CLEAR's documents refers to finished products.}$ $LED's \, color \, temperature \, would \, be \, shifted \, by \, the \, light \, diffuser \, made \, of \, PVC \, or \, silicone \, and \, color \, temperature \, would \, be \, shifted \, by \, the \, light \, diffuser \, made \, of \, PVC \, or \, silicone \, and \, color \, temperature \, would \, be \, shifted \, by \, the \, light \, diffuser \, made \, of \, PVC \, or \, silicone \, and \, color \, temperature \, would \, be \, shifted \, by \, the \, light \, diffuser \, made \, of \, PVC \, or \, silicone \, and \, color \, temperature \, would \, be \, shifted \, by \, the \, light \, diffuser \, made \, of \, PVC \, or \, silicone \, and \, color \, temperature \, would \, be \, shifted \, by \, the \, light \, diffuser \, made \, of \, PVC \, or \, silicone \, and \, color \, temperature \, would \, be \, shifted \, by \, the \, light \, diffuser \, made \, of \, PVC \, or \, silicone \, and \, color \, temperature \, would \, be \, shifted \, by \, the \, light \, diffuser \, made \, of \, PVC \, or \, silicone \, and \, color \, temperature \, would \, be \, shifted \, by \, the \, light \, diffuser \, made \, of \, PVC \, or \, silicone \, and \, color \, temperature \,$ material. CLEAR calibrates color temperature and color coordinate of tailor-made LEDs with proprietary color-matching algorithms to produce a precise color temperature and color coordinate close to black body locus for finished products. All LEDs would be strictly tested and tightly controlled to ensure finished products can meet ANSI standard.



F2222B Connector (Silicone)

10m/15m/20m

18AWG*2

10m/15m/20m

18AWG*2

Silicone Injectionmou**l**ded F2222B-HB-SIM/FC- F2222B-HB-SIM/FC- F2222B-HB-SIM/FC- F2222B-HB-SIM/FC-F2222B-HB-SIM/MC- F2222B-HB-SIM/JU-Connector 01/02-SR- 01/02-B-0.3m/1m/3m/5m/ 0.3m/1m/3m/5m/ 01/02-E-0.3m/1m/3m/5m/ 01/02-SL-0.3m/1m/3m/5m/ PTF-0,3m/1m/3m 18AWG*2 0.3m/1m 18AWG*2 N/A

10m/15m/20m

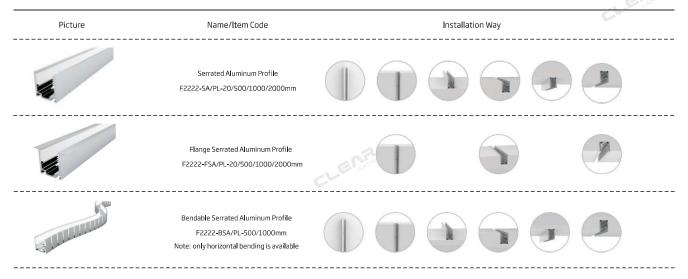
18AWG*2

10m/15m/20m

18AWG*2



IP68



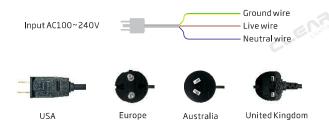




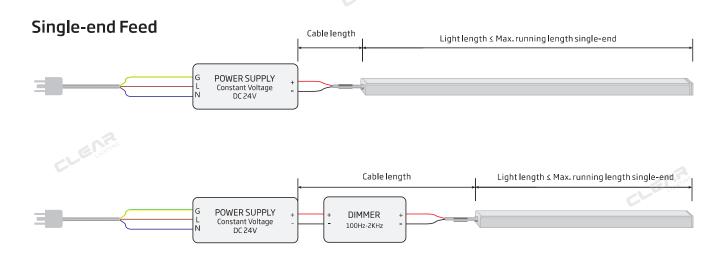


Flexglo[™] F2222B Wiring Diagram

- Please use a constant voltage power supply with corresponding output voltage, and rated wattage of the power supply shall be 25% more than the actual power consumption of light to increase its life expectancy;
- This wiring diagram is using the mains of AC230V with brown and blue wires as an example, and please connect with the corresponding live and neutral wires for other mains electricity;
- 3. Dimming frequency ranges from 100Hz to 2000Hz, and 500Hz is recommended.



4. Types of standard plugs are optional if power cord is purchased from CLEAR.



Light Length:

The length of the longest single light in parallel connection or sum of lights in series connection.

Cable Length:

The length of an electrical cable between power output end and light input end, and the cables for serial interconnection are inclusive.

How to Minimize Voltage Drop

- 1. Please ensure the cable length is not more than the table "Max. Cable Length" according to light length and its wire gauge.
- 2. Please ensure the light length is less than the cable "Max. Running Length Single-end Feed".

Max. Running Length Single-end Feed

Input: DC24V

Connector Type	Injection-moulded Connector
Wire Gauge	18AWG*2
C-SFR-F2222B-12W	15m/49.2ft
C-SFR-F2222B-16.5W	10m/32.8ft

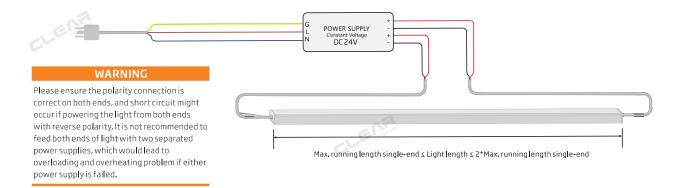
Note

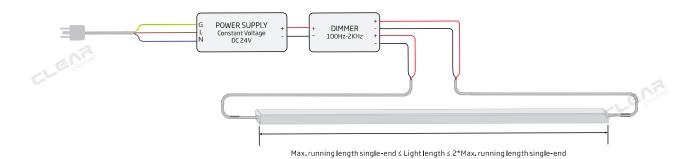
- 1. Above conclusion is based on voltage drop testing result of the light with 0.3 m (0.98ft) cable only.
- 2. The maximum running length is based on the designated light in static full loading status.
- 3. Above running length is only the light length excluding lengths of connectors. Please refer to page *** for exact dimension of connector.
- 4. The delivered length might be subject to the maximum packing length. Please refer to page *** for details.



Double-end Feed

The following wiring diagram with double-end feed to run length that is longer than max, running length for single-end feed but less than twice the value.





Light Length:

The length of the longest single light in parallel connection or sum of lights in series connection.

Cable Length:

The length of an electrical cable between power output end and light input end, and the cables for serial interconnection are inclusive.

How to Minimize Voltage Drop

- 1. It is optimal to position the power supply in the middle of a single light or multiple lines in daisy chain to keep the equivalent cable length on both ends for double-end feed.
- 2. Please ensure the cable length is not more than the table "Max. Cable Length" according to the half of light length and its wire gauge.
- 3. Please ensure the light length is less than the table "Max. Running Length Double-end Feed".

Max. Running Length Double-end Feed

Input: DC24V

·	
Connector Type	Injection-moulded Connector
Wire Gauge	18AWG*2
C-SFR-F2222B-12W	30m/98.4ft
C-SFR-F2222B-16.5W	20m/65.6ft

Note:

- $1.\,A bove \,conclusion\,is\,based\,on\,voltage\,drop\,testing\,result\,of\,the\,light\,with\,0.3m\,(0.98ft)\,cable\,only.$
- 2. The maximum running length is based on the designated light in static full loading status.
- $3. Above running length is only the light length excluding lengths of connectors. \\ \textbf{Please refer to page *** for exact dimension of connectors.} \\$
- 4. The delivered length might be subject to the maximum packing length. Please refer to page *** for details.

F2222B Max. Cable Length (Silicone)

Input: DC24V

		Max. Cable Length									
Item Code	Light Length	0.32 mm ² 22AWG		0.52 mm ²		0.81 mm ²		1.32 mm ²		2.07 mm ²	
item code	(m)			20.	20AWG		18AWG		16AWG		14AWG
		m	ft	m	ft	m	ft	m	ft	m	ft
	1	37.2	122,1	60.5	198.4	94.2	309.0	153.5	503.6	240.7	789.7
-	2	18.4	60.4	29.9	98.1	46.6	152.8	75.9	249.0	119.0	390.5
-	3	12.3	40.4	20.0	65.6	31.2	102.2	50.8	166.6	79.6	261.3
•	4	9.3	30.4	15.0	49.3	23.4	76.8	38.2	125.2	59.8	196.3
	5	7.4	24,3	12.0	39.5	18.8	61.5	30.6	100.3	47.9	157.2
CHILING	6	6.2	20.3	10.0	32.9	15.6	51.3	25,5	83,6	40.0	131.1
	7			8.6	28.2	13.4	43.9	21,8	71 . 5	34,2	112,1
C-SFR-F2222B-12W	8			7.5	24.7	11.7	38.5	19.1	62,8	30.0	98.4
	9			6.7	21.9	10.4	34.2	17.0	55.7	26,6	87 . 3
	10			6.0	19.7	9.4	30.7	15.2	50.0	23.9	78.4
•	11			5.5	17.9	8.5	27.9	13.8	45.4	21.7	71,2
•	12]		7.8	25.6	12.7	41.7	19.9	65.3
-	13]		7.2	23.6	11.7	38.4	18.4	60.2
-	14	1				6.7	21.9	10.9	35.6	17.0	55.9
•	15]			1101	6.2	20.4	10.1	33.3	15.9	52.2
	1	26.8	87.9	43.5	142.8	67.8	222.5	110.5	362.6	173.3	568.6
•	2	13.4	43.9	21.8	71.4	33.9	111.2	55.3	181.3	86.7	284.3
•	3	8.9	29.3	14.5	47.6	22.6	74.2	36.8	120.9	57.8	189.5
•	4	6.7	22.0	10.9	35.7	17.0	55.6	27.6	90.6	43.3	142.1
C-SFR-F2222B-16.5W	5			8.7	28.6	13.6	44.5	22.1	72.5	34.7	113.7
•	6			7.3	23.8	11.3	37.1	18.4	60.4	28.9	94.8
•	7			6.2	20.4	9.7	31.8	15.8	51.8	24.8	81.2
	8			5.4	17.9	8.5	27.8	13.8	45.3	21.7	71.1
•	9]		7.5	24,7	12.3	40.3	19.3	63.2
	10					6.8	22,2	11.1	36.3	17.3	56.9

Note: 1. Please check the wire gauge of your connector in the table "Max, Running Length".

CLERATIO Single-end feed, C-SFR-F2222B-12W, 5m light length when with 18AWG wire, max. cable length should refer to the corresponding value 18.8m for 5m light length;

Double-end feed, C-SFR-F2222B-12W, 10m light length when with 18AWG wire, max. cable length of each end should refer to the corresponding value 18.8m for half of light

2. The above cable lengths are calculated based on minimum working voltage of 20.5V to activate the built-in constant current IC on circuitry, which enables input voltage range



